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Ad Hoc Committee for J-3 System Capabilities

Minutes for Meeting #5

Date: 10 June 1968

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Location: National Photographic Interpretation Center

Prepared by

Attendees:

* Attended only during discussion related to polarizer filters and color film.

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Review of Mission 1103 Bi-Color -

gave the COMIREX a Bi-Color status briefing on 6 June 1968. They were advised that the exploitation techniques employed to date have not been as successful as originally anticipated, and that as a result of a meeting held at NPIC on 5 June 1968, a redirection of effort has been established.

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A three-man National Committee composed of CIA, Chairman; NPIC Photo Interpreter; and

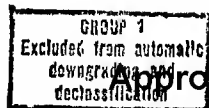
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NPIC/TSSG was established to review the Bi-Color analysis procedure and to report the suggested equipment, technique, and procedure for analyzing Bi-Color to COMIREX by 1 August 1968. The National Committee is not willing to accept orthoprinting as the best technique without first looking at all available equipment. Therefore, the National Committee report will probably be delayed.

As a result of the 5 June community meeting held at NPIC, ACIC has been tasked to attempt orthoprinting with an optical device known as GZ-1 vice the electronic scanner orthoprinter AS-11C (See Attachment 1). Also, AMS has tried the Unimace printer. suggested that Bi-Color prints be attempted with the Electronic Color Printer at Westover Air Force Base.

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Questions

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1. [REDACTED]--What is the best method of gathering Bi-Color information from a PI standpoint? Answer--The ARES has the advantage of being a real time device, but is not economically feasible and results in a resolution loss. A group of ARES machines is not considered a suitable solution. However, a combination of equipment will probably always be needed and the ARES is promising because of the real time advantage.

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2. [REDACTED]--What schedule has the National Committee or others concerned developed for Bi-Color analysis? Answer--The National Committee was originally to report by 1 August, but that date will probably not be met due to the various equipment to be tested.

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[REDACTED] prepared a TWX (as a result of the 5 June community meeting) that tasked DIA/AMS and DIA/ACIC to perform some additional work and report within six weeks following DIA approval. [REDACTED] originally advised COMIREX that the 1 August date selected for the National Committee report was extremely optimistic.

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Discussion

It was concluded that those involved with Bi-Color exploitation are extremely interested in making the technique a success. A healthy attitude is being maintained by all concerned.

Final Review of Exposure Report [REDACTED]

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The problems associated with finalizing the exposure report have been solved. The report, J-3 Systems Capability Report No. 2, is scheduled for distribution to the community on 21 June 1968.

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Evaluation of SO-230 on Mission 1102, 1046 [REDACTED]

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A TWX [REDACTED] giving the results of the NPIC analysis of SO-230 has been prepared for the community. In brief, the characteristics of SO-230 and 3404 were found to be comparable under in-flight conditions with the exception that the speed of SO-230 is twice that of 3404. [REDACTED]

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is experimenting with a change to the curl characteristics of SO-230 to make it match the curl of 3404. Also, [REDACTED] reports that the emulsion lift-off problem has not been solved. Further SO-230 comments will be made by [REDACTED] at the 1103 PET meeting. [REDACTED] reiterated that SO-230 will not again be flown until the emulsion lift-off problem is solved.

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Evaluation of Wratten 12 Filter on Mission 1103 - [REDACTED]

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Four passes of Mission 1103 were scheduled to have flown with the Wratten 12 filter. Due to an operational priority, only two passes were taken. These two passes were both 60 to 70 per cent obscured by weather. It is concluded that more data will be needed for a final analysis of the Wratten 12. This topic will be considered at the next Ad Hoc Committee Meeting.

Evaluation of SO-380 on Mission 1103 - [REDACTED]

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A tag on test strip of SO-380 was flown on Mission 1103. Time has not permitted a thorough analysis; however, preliminary results show no difference between the SO-380 and 3404. Pending final analysis, NPIC will advise the community of their findings by TWX. 1105 is now scheduled for a full load of SO-380 with a tag on strip of SO-121 in one instrument.

Flight Plans for Mission 1104 - [REDACTED]

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[REDACTED] advised that 1104 will be flown with a Bi-Color capability and will have a 1600 foot tag on strip of SO-180 on one instrument. The 3400 sun line test is postponed until winter. See Attachment 2 for J-3 test plan. He confirmed that [REDACTED] was arranging for the proper filters for SO-180 and requested that [REDACTED] insure that the horizon camera have the appropriate alternate filter for SO-180.

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[REDACTED] described the planned targets for the SO-180 evaluation. These fall into three basic categories:

- b. Buried antennas
- c. Agricultural targets

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Special Briefing (arranged by [REDACTED] On Use of Polarizers
With Color Films - [REDACTED]

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[REDACTED] briefed The Ad Hoc Committee on their work with polarizers and color film.

Approximately a year and a half ago, [REDACTED] processed material from Air Force flight tests. Looking at this material, the Air Force concluded that the polarizer was of zero value. A [REDACTED] physicist studied the atmospheric particles and spectral problems and concluded that the Air Force had failed to achieve results with the polarizer because it was not oriented in the proper plane. Independent flight tests by [REDACTED]

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[REDACTED] show that the polarizer does enhance imagery under certain conditions. Rayleigh scattered particles (molecules) are especially susceptible to polarizer filters. Aerosol particles are of various composition and size and contain only a small percentage of polarized light. The polarizer is least helpful with aerosol particles. The polarizer film is especially helpful when shooting long-range oblique photography into the sun and is ideal for penetrating water. For operational use, [REDACTED] has developed an automatic sensing device that properly orients the polarizer filter. The physical size of this device is approximately 4" by 4". The [REDACTED] aircraft will be used to conduct some SO-180 tests under an existing OSA contract. [REDACTED] are coordinating.

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As a separate topic, [REDACTED] confirmed that the Electric Color Printer at Westover will accept an input as large as 9" by 9" and will produce an output as large as 20" by 20". Each copy is individual, thus the last takes as long as the first, that is, approximately six minutes.

Action Items

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1. [REDACTED] will request orthoprints from ACIC for Westover to use in preparing electronic color prints.

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2. [REDACTED] will schedule Kodachrome II vs SO-121, and SO-180 flight tests with OSA. [REDACTED] will work jointly on these tests.

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3. [REDACTED] will insure that the proper filter is selected for the horizon camera on Mission 1104.

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4. [REDACTED] will determine whether SO-180 will fly in the forward or aft camera.

5. All previous action items are closed with one exception. Attempts to locate the [REDACTED] reports have not been successful.

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[REDACTED] is taking this action item.

The previous minutes reported that "3400 with the appropriate processing would equal the speed of 3401. The added advantage is that 3400 is of finer grain." [REDACTED] pointed out that the appropriate processing refers to "a special process only on the versamat" and asked that this statement be added to this minutes for clarification.

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Attachments: a/s

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